



Stormwater Management Advisory Commission

Meeting Minutes

July 10, 2019

3:00 pm

Conference Room
Walnut Creek Wetland Center

Commission Members Present: Matthew Starr, Tappan Vickery, David Markwood, Jonathan Page, Claudia Graham, Mark Senior, Jermonde Taylor, and Ken Carper

Staff Members Present: Wayne Miles, Suzette Mitchell, Kelly Daniel, Justin Harcum, Dale Hyatt, Kevin Boyer, Amy Farinelli, Barbara Moranta, Ben Brown, Veronica High, Veronica Barrett, Sean Eggleston, and Scott Bryant

Commission Members Absent: David Webb and Evan Kane

Guests: June Hastings, Bryan Perry, and Keith Shaldan

Meeting called to order: 3:00 pm by Matthew Starr (*chair*)

1. **Welcome, Introductions, Excused and Unexcused Absence**

- **Mr. Senior** made a motion to excuse David Webb from today's meeting, and **Mr. Taylor** seconded. The motion was passed unanimously.
- **Mr. Kane** is an unexcused absence.

2. **June 6, 2019 Minutes for Approval**

- **Mr. Senior** made a motion to approve and **Ms. Vickery** seconded. The motion was passed unanimously.

3. **Stormwater Staff Report**

- **New Employee -**
 - *Development Review – Sean Eggleston (Plan Reviewer)*
- **Promotion -**
 - *Business Service – Suzette Mitchell (Administrative Support Supervisor)*
- **Hot Topics**

Flood Prone Area Stakeholder's Group Update – *The next meeting will be held at 3:00 pm on 7/11/19 at Thomas Crowder Woodland Center. There will be three more meetings scheduled for each month until September, which staff anticipates wrapping up with a recommendation at that meeting.*



SMAC Diversity Recommendation Update – Since the last Commission meeting, the City Attorney’s Office requested the item be an ordinance change. This will still preserve the intent and incorporate the language into the ordinance. If approved by the Commission, it will be placed on the August 20 Raleigh City Council agenda. The document will aid the City Council in appointing the next member. There’s a diversity spreadsheet (located in the agenda packet) for each Commission member to mark an (x) by their qualifications and turn in at the end of today’s meeting for recordkeeping.

Motion

Mr. Senior made a motion to approve and **Mr. Taylor** seconded. The motion was approved unanimously.

Quarterly rain barrel update (Amy Farinelli) – The rain barrel sales are doing well and the public seems to be engaging more in the program by looking at displays and through outreach programs.

Quarterly Rainwater Rewards update (Justin Harcum) – The final quarterly report (April – June) for FY19:

- Staff approved – 1 project
- Projects Completed – 6 projects

4. Raleigh Rainwater Reward Projects

Justin Harcum (Project Engineer) noted there are three projects that are up for the Commission’s review, and two representatives from two of the properties are here.

June Hasting (President of the Condo Association) thanked the Commission for letting her speak and she wanted the Commission to understand the magnitude of the project. The residents are excited about getting this project started. She is already working on lining up a long-term maintenance agreement to take care of the property and these rain gardens. The residents will be happy about seeing plants growing in these rain gardens and becoming more environmentally friendly.

4709 & 4713 Matt Drive - Install 800 square feet of bioretention to treat 8,800 square feet of impervious driveway and roof surfaces on their properties. This project is in the Marsh Creek watershed and is eligible for a 75 percent reimbursement. The total project acceptable cost estimate is \$19,258 with the petitioner’s share being \$4,814 and the City Stormwater share up to \$14,444.

2345 Airline Drive – Install a 411-square-foot rain garden to treat 3,815 square feet of impervious roof and driveway surface on their property. This project is in the House Creek watershed and is eligible for a 75 percent reimbursement. The total project acceptable cost estimate is \$10,332 with the petitioner’s share being \$2,583 and the City Stormwater share up to \$7,749.

213 Plainview Avenue - Install 380 square feet of green roof to treat 738 square feet of impervious roof surface on their property. This project is in the Pigeon House Branch watershed and is eligible for a 90 percent reimbursement. The total project acceptable cost estimate is \$7,304 with the petitioner’s share being \$730 and the City Stormwater share up to \$6,574.



Questions\Comments:

Ms. Graham asked, for 213 Plainview Ave., what is the relationship between the completion date and the actual application to the program, and is there a rule for this? **Justin Harcum** said the property owner contacted him on the day it was being installed (*within the last month*). The policy states a project that has started without approval and has been completed less than one year from the application date, can be considered by SMAC. Regardless of the amount of the requested reimbursement, if a project is started without approval, the project becomes ineligible for a staff review, and must be reviewed by SMAC.

Mr. Page asked is it common where you have contributing drainage area coming onto the green roof. **Justin Harcum** said there is more runoff coming to the system that could be effectively treated. The design volume for this green roof would allow for an additional 358 square feet of roof surface during a 1-inch rain event.

Motion

Mr. Starr made a motion to approve all three projects, both **Mr. Senior** and **Mr. Page** seconded. The motion was approved unanimously.

5. Drainage Assistance Projects Review

Dale Hyatt (*Drainage Assistance Supervisor*) went over the four projects up for review for this new fiscal year. The outline of the presentation was on pending projects, project location map, project requests, funding overview, and recommendations.

1210 Dixie Trail Drive Bank Stabilization - The Southwest Prong of Beaverdam Creek runs along the eastern boundary of the property owned by St. Georges Anglican Church located at 1210 Dixie Trail. Areas of severe erosion exist along the western bank of the stream and is within ten feet of the access drive for the church. Areas of erosion are believed to be located within a City of Raleigh greenway easement. In agreement with Parks Recreation & Cultural Resources, if recommended and approved by Council, Stormwater Management would fund the design and permitting cost, with Parks Recreation and Cultural Resources funding and completing construction of the repair.

Questions\Comments:

Mr. Starr wanted to know if there's been conversation with the church about removing the additional access. **Dale Hyatt** said there was some. **Mr. Starr** voiced concerns on using stormwater funds for an access that looks like it's not needed.

Mr. Senior asked where would the greenway access go? **Dale Hyatt** said we would be adding the access for the greenway. The stabilization for the bank will provide same pathway between the access driveway and the restored top of the bank.

Mr. Page asked is that the only spot along that reach of stream that has erosion or is the only one critical because it's potentially effecting access. **Dale Hyatt** said there's some areas farther down with issues, but not critical.



Motion

Mr. Senior made a motion to approve funding for the project based on the Parks and Recreation support and funding, and **Mr. Carper** second. The motion passed 5 - 3 (*approving - Mr. Senior, Mr. Carper, Ms. Graham, Mr. Taylor and Mr. Markwood, and opposing Mr. Starr, Ms. Vickery and Mr. Page*)

1301 Battery Drive and 1308 Poole Road Drainage Improvements - The outfall of the existing 36-inch reinforced concrete pipe (RCP) crossing the property of 1301 & 1308 Poole Road has failed. As a result, the headwall is no longer attached to the pipe outlet and sections of pipe are falling into the outfall channel. Additionally, a sinkhole is now present in this system within the right-of-way of Poole Road. This project will replace the existing 36-inch RCP and failed headwall, and address the erosion present at the outfall of the existing system. Additionally, this project will replace the blind junction box within the right-of-way of Poole Road.

Questions\Comments:

Mr. Senior asked what caused the pipe failure. **Dale Hyatt** said it was poor installation and age.

Motion

Mr. Senior made a motion to approve and **Ms. Graham** seconded. The motion was approved unanimously.

1100 Old English Court Bank Stabilization – Significant erosion of the right (looking downstream) stream bank continues to encroach on the property of 1100 Old English Court. Erosion is now within 10 feet of the foundation of the home. This project will stabilize approximately 100 linear feet of stream bank with boulder toes, sloping, and re-vegetation of the stream bank.

Questions\Comments:

Mr. Page asked if the structure is located in a mapped floodplain or flood hazard area. **Dale Hyatt** said no.

Motion

Mr. Senior made a motion to approve and **Mr. Page** seconded. The motion was passed unanimously.

4113 Windsor Place Drainage Improvements - The existing 48-inch corrugated metal pipe (CMP) driveway culvert at 4113 Windsor Place is failing resulting in sinkholes and culvert headwall failure. The invert of the 48-inch culvert has rusted out and the pipe has begun to collapse reducing pipe capacity and increasing the potential for driveway failure. This project will replace the existing CMP driveway culvert with a concrete pipe culvert and headwalls.

Questions\Comments:

Mr. Starr asked if the channel was concrete in the slide presentation. **Dale Hyatt** said there were sections near the culvert where the stream invert is concrete. **Mr. Starr** asked if the concrete



would be removed. **Dale Hyatt** said yes as part of the culvert replacement some channel work would be done to remove the concrete channel lining.

Motion

Mr. Carper made a motion to approve and **Mr. Taylor** seconded. **Mr. Starr** asked to make an amendment ensuring concrete removal and adding riprap in its place. The motion was passed unanimously.

<i>Estimated Project Costs</i>	
1210 Dixie Trail Bank Stabilization	\$32,000
1301 Battery Dr & 1308 Poole Rd Drainage Improvements	\$196,000
1100 Old English Court Bank Stabilization	\$143,000
4113 Windsor Place Drainage Improvements	\$160,000
Total Estimated Project Costs This Period	\$531,000
FY20 Budget	\$1,500,000
<i>FY20 Remaining DA Funds</i>	<i>\$969,000</i>

6. Plan for Mandatory Use of Green Stormwater Infrastructure (GSI)

Wayne Miles provide a brief background on this item. It was introduced at June's Commission meeting. He stated City Council directed the Commission/staff to develop a plan converting the GSI program from voluntary to mandatory. Recommendations will be provided at the August 20 City Council meeting. The committee was formed at June's SMAC meeting and they met on June 20 to draft a plan and supporting memo (*see agenda back-up*).

Kevin Boyer (*Water Quality Supervisor*) added the committee reviewed the timeline and based on the feedback received they made minor revisions to the timeline. Since then, a memo was drafted from the Commission to City Council and once it's finalized will be presented at the August 20 meeting. He noted that the committee can reconvene for another meeting between now and the next scheduled SMAC meeting if they would like. He suggested gathering comments and any feedback today, so those can be discussed at that meeting. If the Commission decides to endorse that plan at the August SMAC meeting, staff can get on the agenda for August 20 Council meeting.

Updates

- Row A – *Added a check-in with the City Attorney's Office*
- Row E – *Description was expanded and reflected in the memo*
- Draft Memo - *Tracks the activity on the timeline*

Discussion/Feedback:

Mr. Starr commented on Row A "Evaluate NC Regulatory limits on the City's Authority", it's his understanding that the rule change is in a water quality section. He doesn't want to start the onset of the project saying we can't do something. **Kevin Boyer** mentioned this was brought up in the committee meeting, and he believes Mr. Starr is trying to say, "let's make sure we consider local flooding at the same time we consider water quality impacts of GSI". **Mr. Starr** said yes.



Mr. Senior commented on Row D “Prepare and adopt UDO text changes” he thinks it’s out of place while working through the plans chart. He asked if it can be broken up with adopt being in a separate line item. **Kevin Boyer** mentioned that this also was discussed at the committee meeting distinguishing between prepare and adopt. He knows it will have to go through the Planning Commission, have a public hearing, and then City Council consideration, so he suggested putting all that under adoption.

Mr. Starr said to reference the timeline to see how it flows.

Ms. Vickery said anything we do pertaining to processes and procedure needs to be above par because there will be a lot of scrutiny, so we need to eliminate any confusion. She read the public comments from Ms. Harris at that meeting and we need to market support into the existing program to get people activated over the next two or three years, so we don’t lose steam. She said Ms. Harris comments were valid on not abandoning voluntary participation since it’s only been 1½ years since the current system was put into place. She mentioned more outreach to get people engaged in the development community, so they can buy in to this before it gets mandatory. **Kevin Boyer** suggesting doing more workshops with the designers/developers, additional web postings, social media and so forth. **Mr. Starr** thinks lack of participation is not from outreach programs, but reflective on the incentives that doesn’t have enough bang for the buck.

Mr. Markwood referenced the outreach mentioned he believes the “bang” will come from the different examples.

Kevin Boyer said he will send out a doddle poll tomorrow, so he can schedule the next sub-committee meeting.

7. **Public Comment**
No public comment

8. **Other Business**
No further business

Adjournment:

Mr. Senior made a motion to adjourn and **Mr. Carper** seconded. The motion was passed unanimously, and the meeting adjourned at 4:18 pm.

Suzette Mitchell